W —— **ALPHABET CHARACTER**

87 —— **ASKII EQUAVELENT**

1　1　1　0　0　1　1　1 —— **BINARY EQUAVELENT**

FIGURE 1

NOTE: No Vias drilled when Binary Number is 0
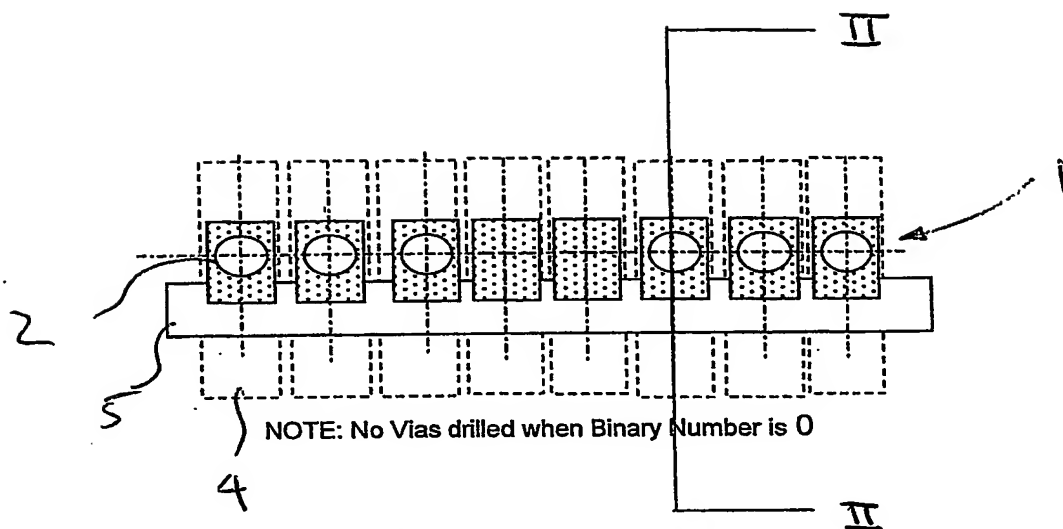
PLAN VIEW OF MATRIX

FIGURE 2a

**X-X SECTION THRO'
MATRIX**

FIGURE 2b

ENROLLMENT FORM

NAME   DATE OF BIRTH   GENDER

PLACE OF BIRTH   COUNTRY OF ORIGIN

FAMILY NAME OF MOTHER

HEIGHT   WEIGHT   SHOE SIZE

COLOUR OF EYES   COLOUR OF HAIR

ADDRESS   POST CODE

BANK SORT CODE   OCCUPATION

ETC, ETC

ENTER

Figure 4

ENCODE DATA

ENCODED DATA

GERBER FILE TO PRODUCTION

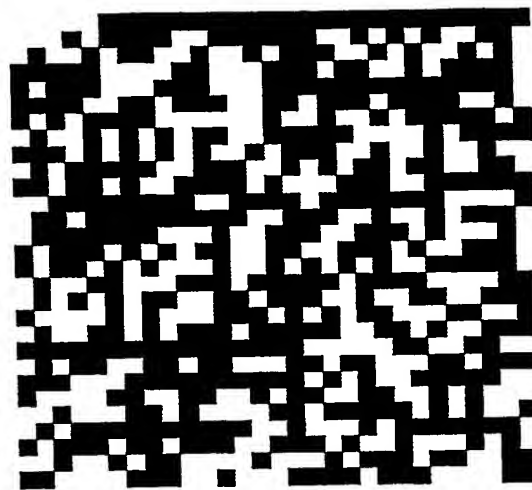1 FILL IN FORM 2 AUTHENTICATE 3 SOFTWARE ENCODE
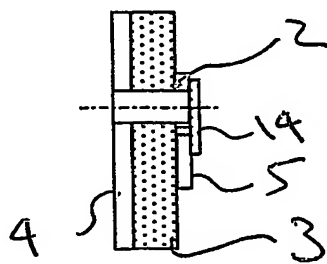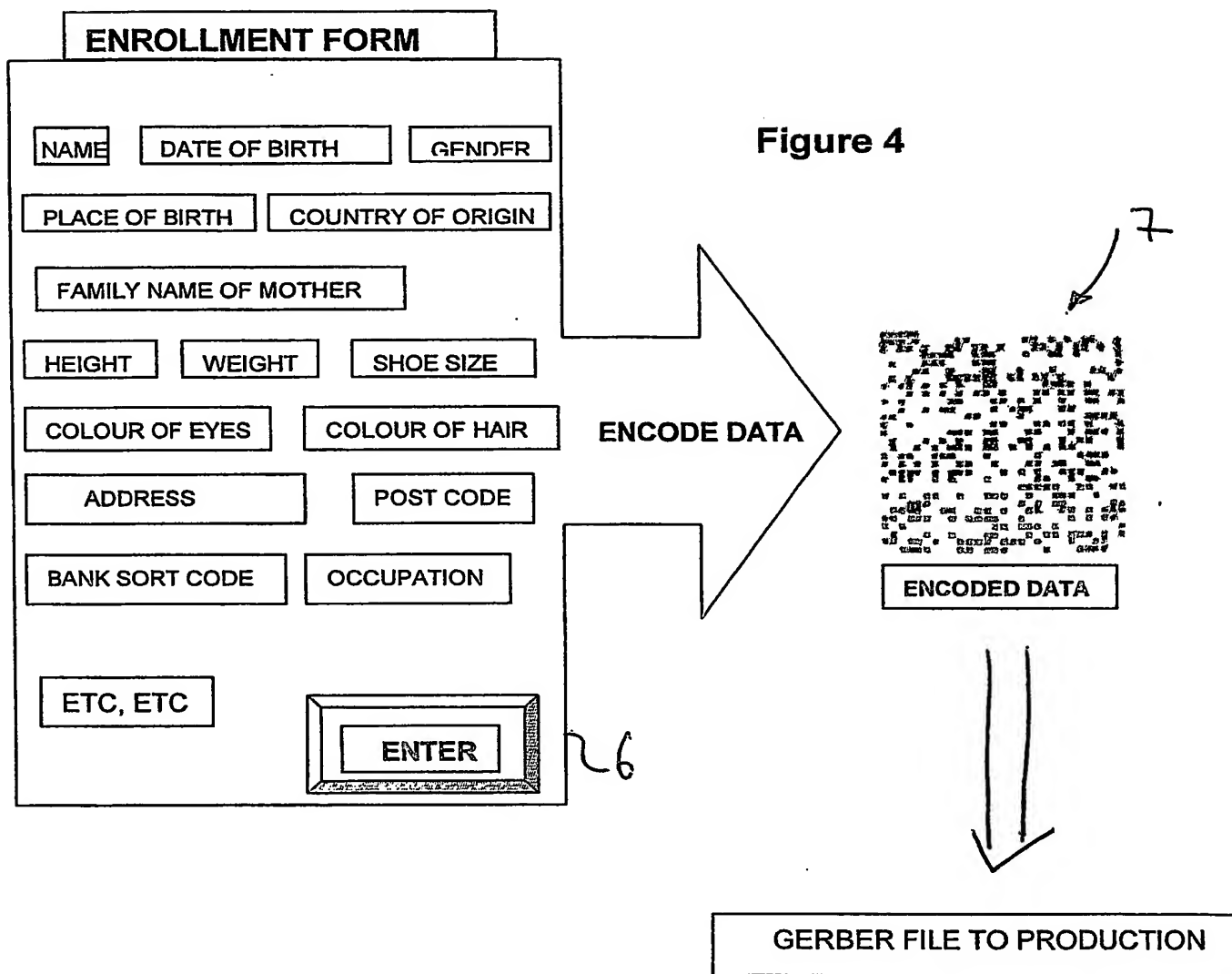
FIGURE 3

Figure 5a

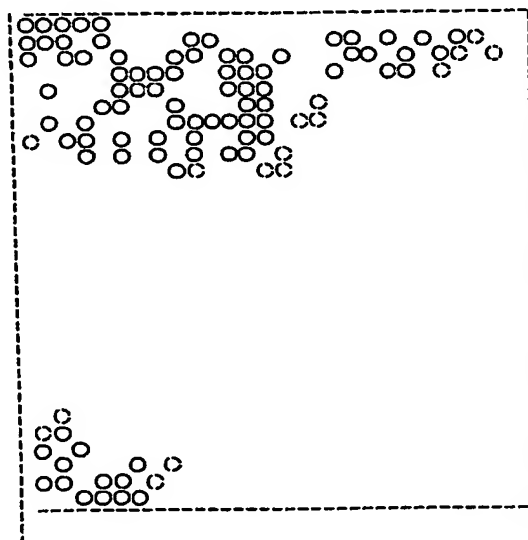**GRAPHICS IMAGE GENERATED FROM APPLICATION FORM**

Figure 5b

CORRESPONDING VIA / DRILL MATRIX

Figure 6

6

Figure 7

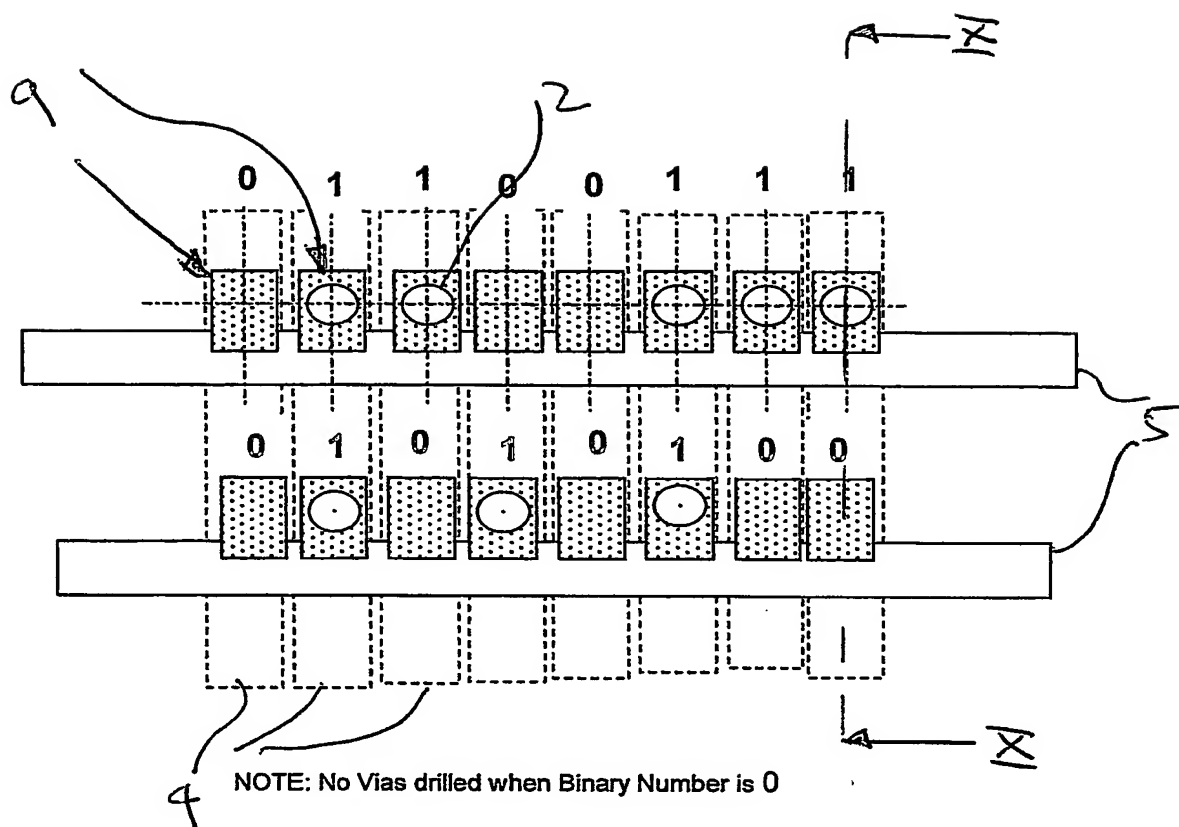NOTE: No Vias drilled when Binary Number is 0
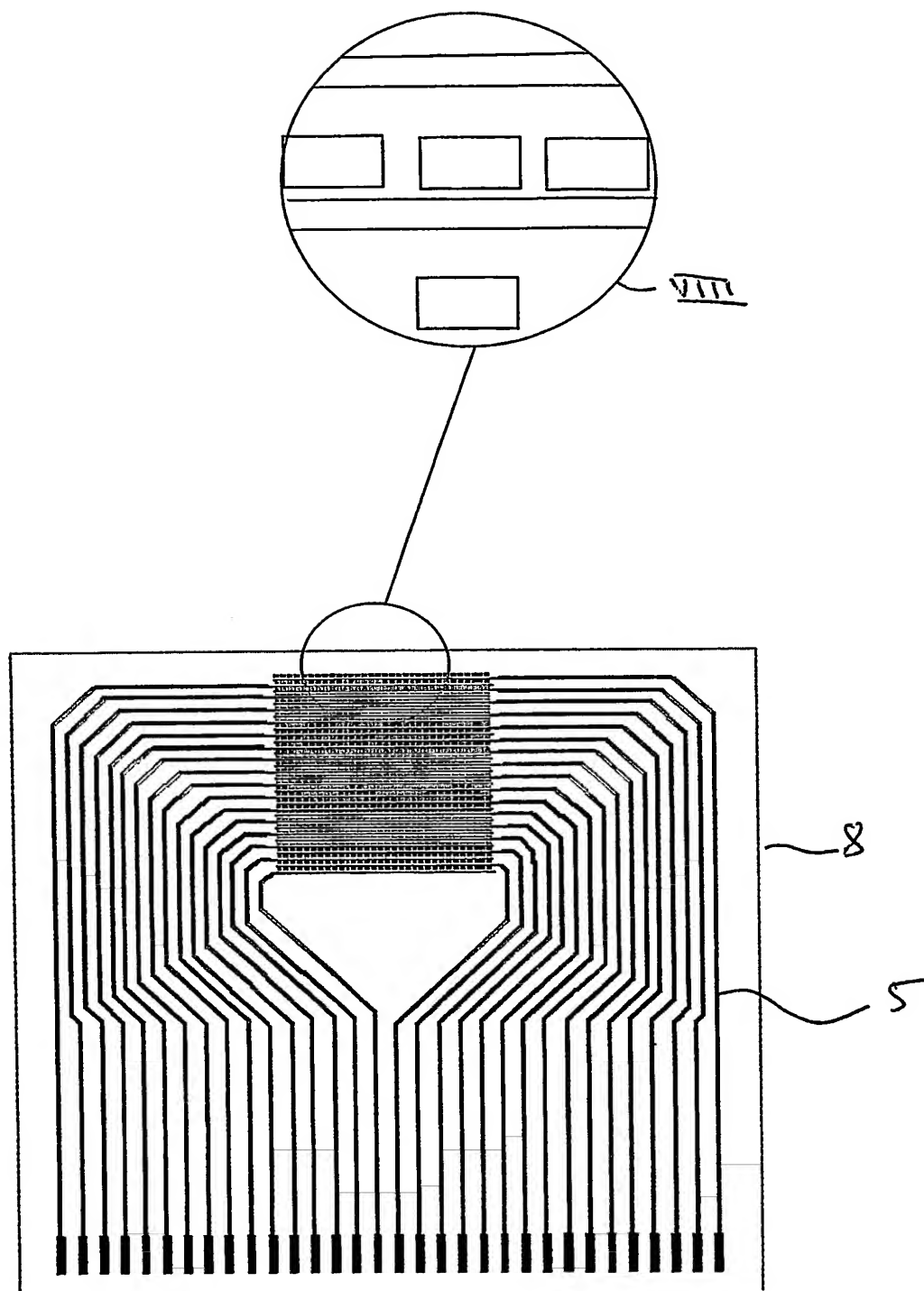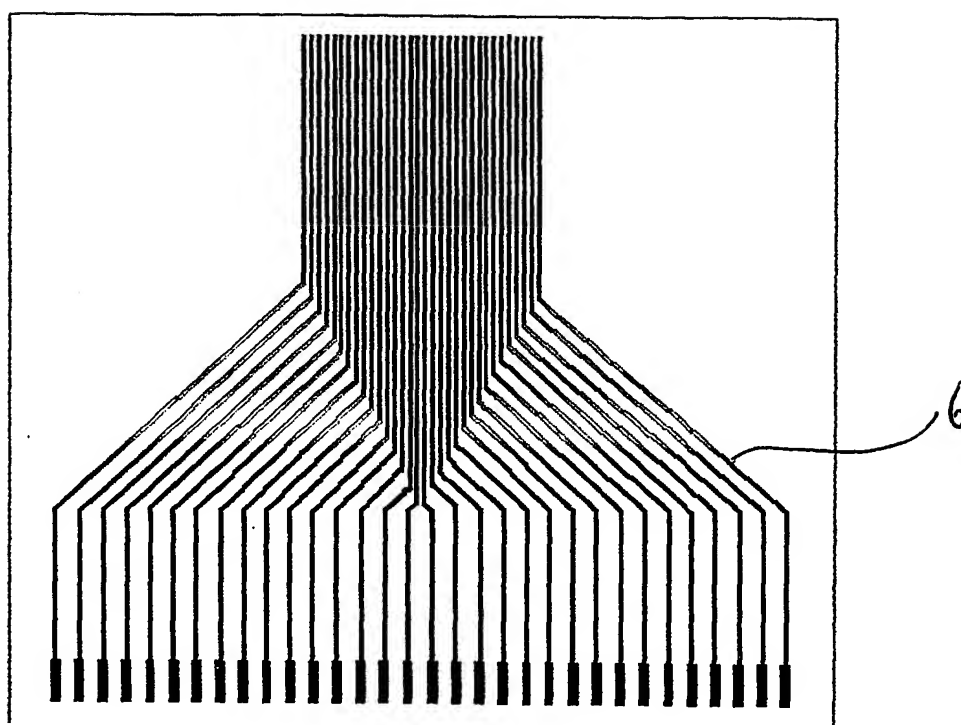
PLAN VIEW OF SENSING CIRCUIT

FIGURE 8

VIA

NO VIA

PLAN VIEW OF DRIVE CIRCUIT

FIGURE 9

VIA

14

2

5

NO VIA

5

4

3
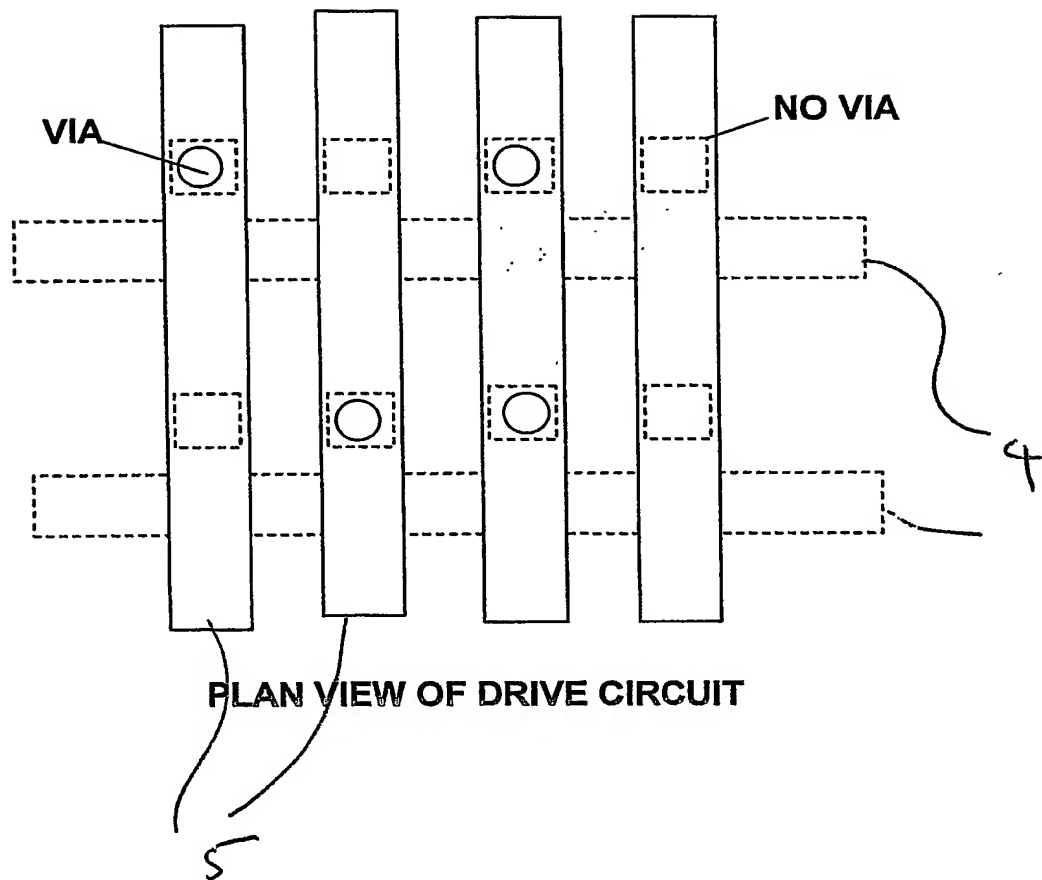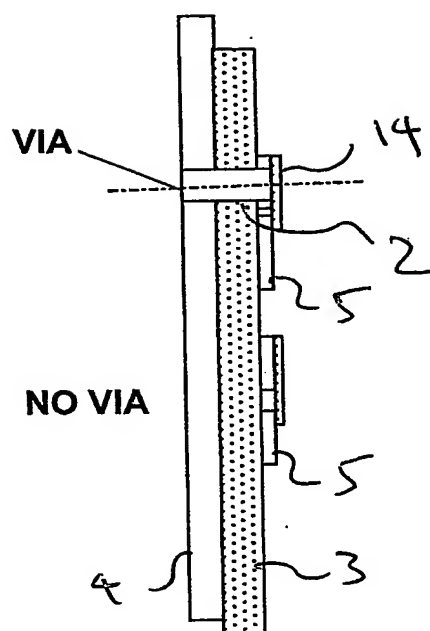
**X-X SECTION THRO'
MATRIX**
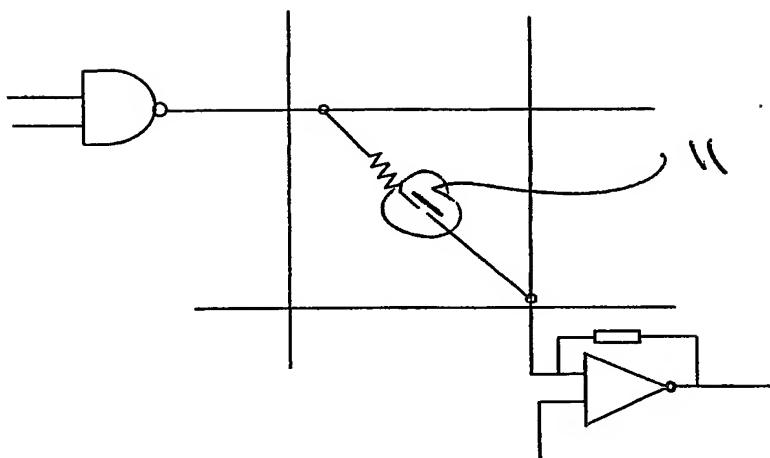
FIGURE 10

FIGURE 11
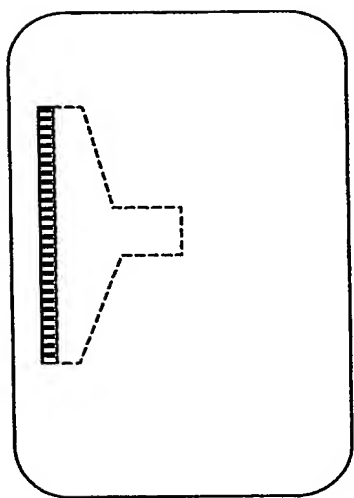
FIGURE 12a

FIGURE 12b
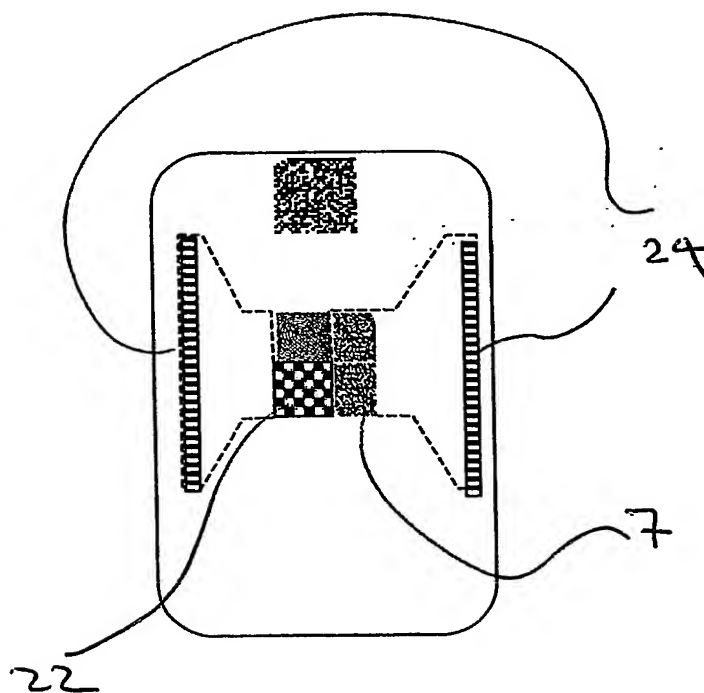
Figure 13
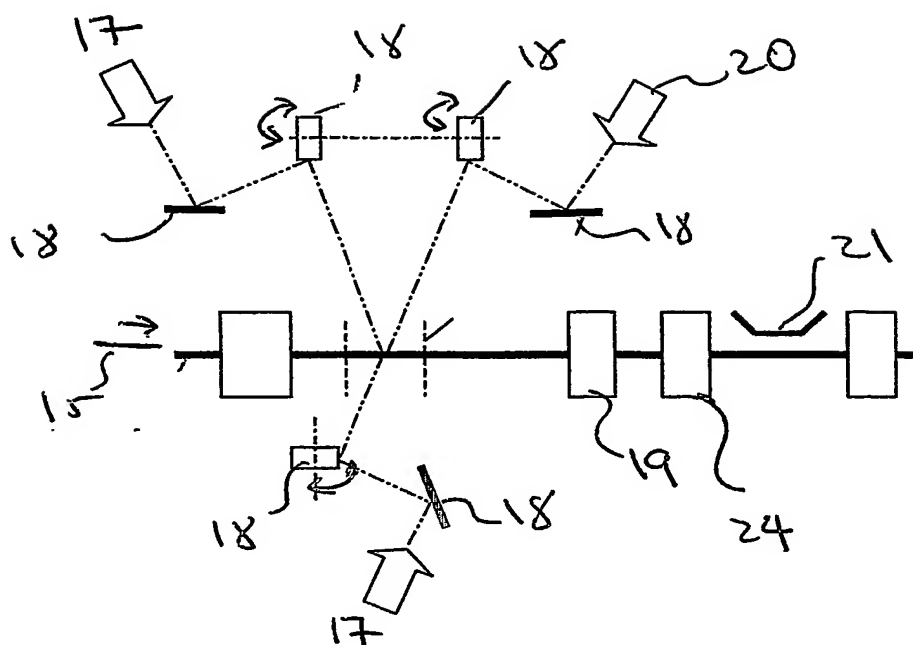
Figure 14

14/14
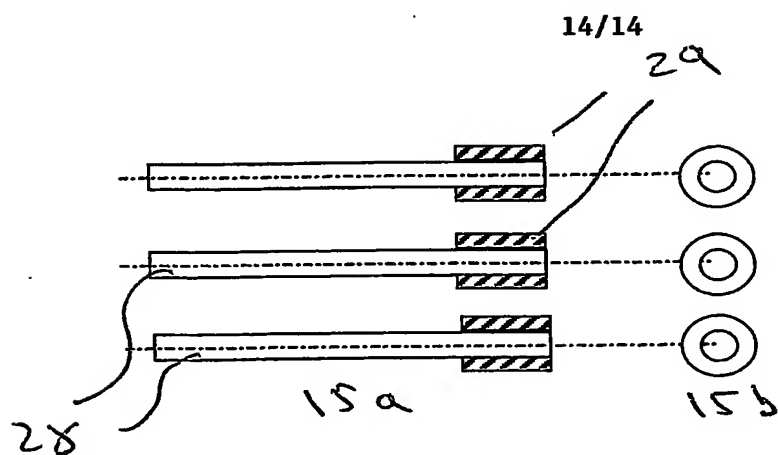
Figure 15

DETAIL OF SPINDLES

SENSE ELECTRODE

SENSE ELECTRODE

DRIVE ELECTRODE

CARD

DRIVE ELECTRODE

SECTION THRO' CARD READ ASSEMBLEY

Figure 17

CARD OUTLINE

CARD ELECTRODES

Figure 16